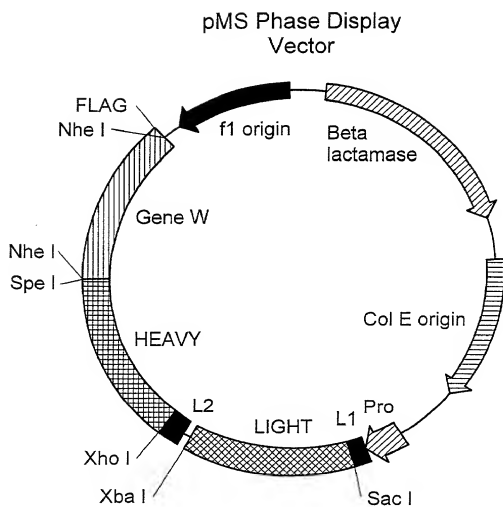


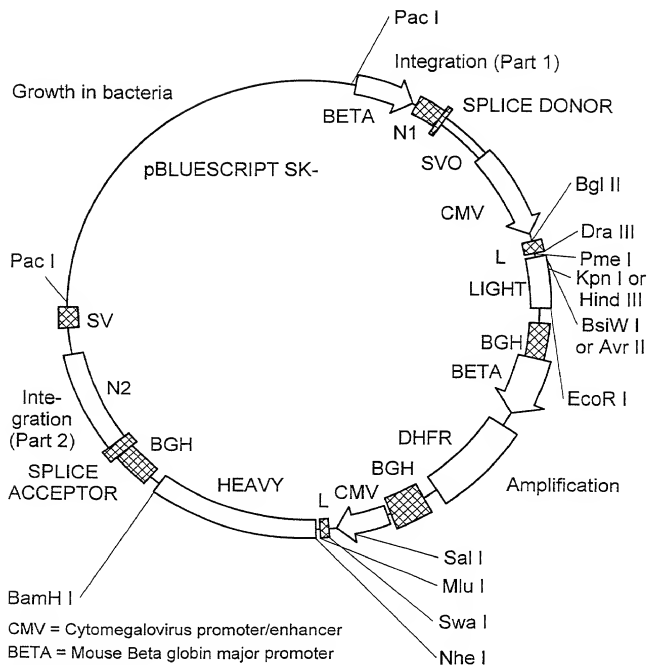
FIG. 1



# FIG. 2

2/25

## NEOSPLA



CMV = Cytomegalovirus promoter/enhancer

BETA = Mouse Beta globin major promoter

SVO = SV40 origin

BGH = Bovine growth hormone polyadenylation

SV = SV40 polyadenylation

N1 = Neomycin phosphotransferase exon 1

N2 = Neomycin phosphotransferase exon 2

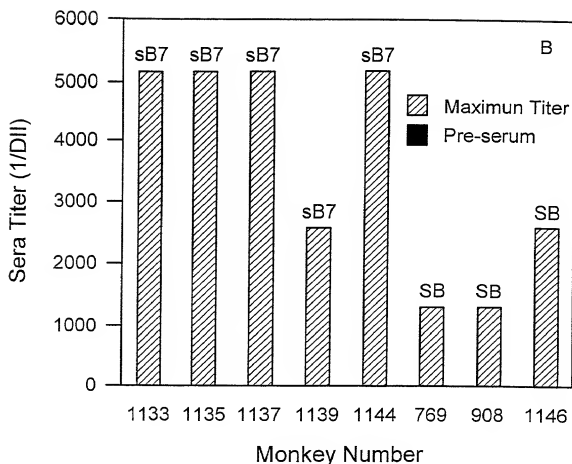
LIGHT = Human immunoglobulin kappa or lambda constant region

DHFR = Dihydrofolate Reductase

HEAVY = Human immunoglobulin gamma 1 or gamma 4 PE constant region

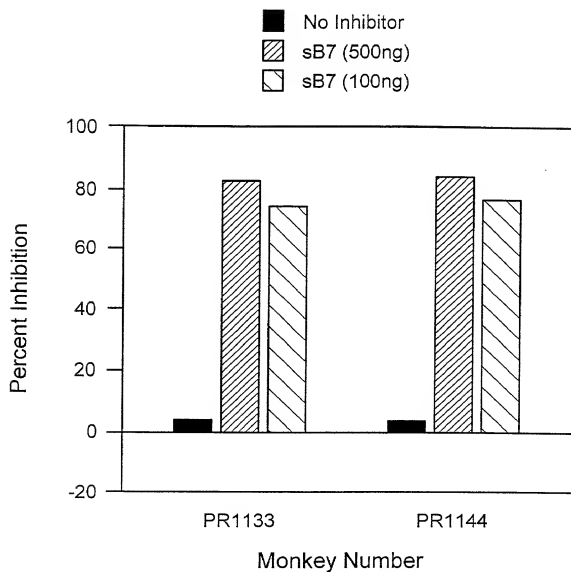
L = Leader

# FIG. 3



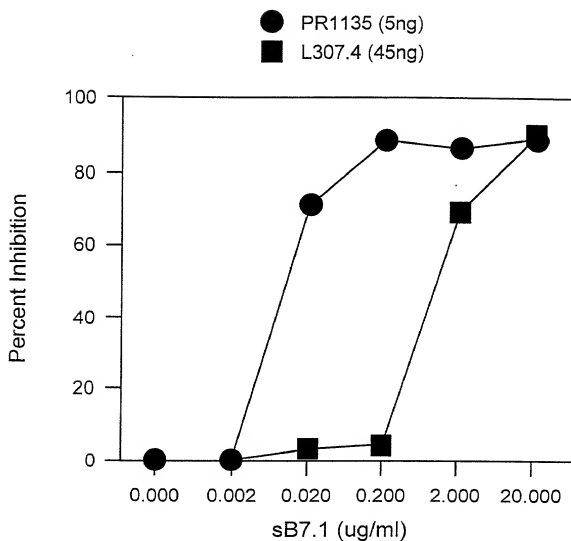
Monkey Serum Anti-B7.1 Titers Directed Against Cell Surface B7.1 on Transfected CHO Cells. Monkeys 1133-1139 were immunized with sB7.1. Monkeys 769-1146 were immunized with 50 million human B7 positive SB cells.

FIG. 4



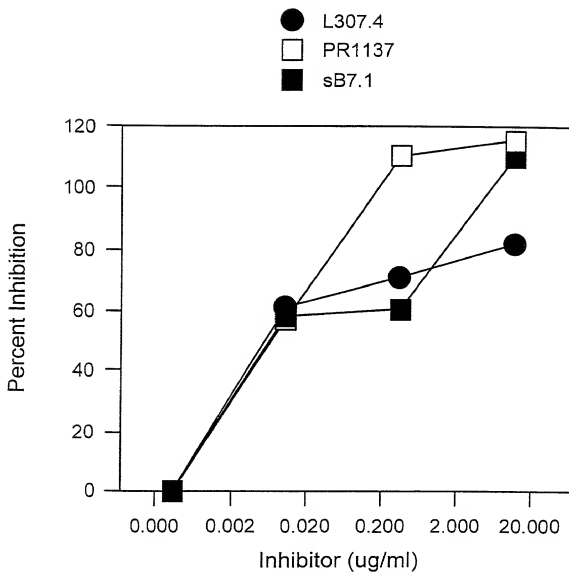
Inhibition of Radiolabeled sB7.1 Binding by sB7.1 Affinity-purified Monkey Antibodies in Presence of Unlabeled sB7 and MAb L307.4 Murine Anti-B7.1.

FIG. 5



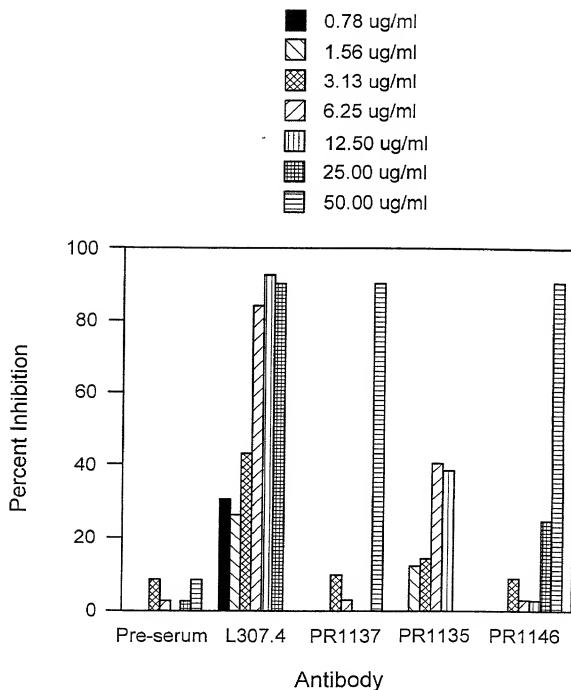
Inhibition of Binding of Radiolabeled Monkey 1135 and L307.4 Anti-B7.1 Antibodies to B7 Positive Human SB Cells by Competition With Affinity-Purified sB7.1.

FIG. 6



Inhibition of Radiolabeled B7-Ig Binding to Activated Human Peripheral Blood T Cells by Competing With Unlabeled sB7.1 Murine Anti-B7.1 (L307.4) and Monkey 1127 Affinity-purified Serum Antibodies.

# FIG. 7



Inhibition of IL-2 Production in Mixed Lymphocyte Cultures by Anti-B7.1 Affinity-purified Monkey Serum Antibodies. Assays at some concentrations for certain monkeys were not done, due to limiting amounts of purified antibody.

LENGTH OF 7C10 LIGHT/PRIMATIZED: 705 bp; LISTED FROM: 1 TO: 705;  
 TRANSLATED FROM: 1 TO: 703 (ENTIRE REGION);  
 GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:11 AM

FRAME 1 M R V P A Q L L G L L L L  
 ATG AGG GTC CCC GCT CAG CTC CTG GGGCTC CTG CTG CTC  
                   9                  18                  27                  36

W L P G A R C A Y E L T Q P P  
 TGG CTC CCA GGT GCA CGA TGT GCC TAT GAA CTG ACT CAG CCA CCC  
           45                  54                  63                  72                  81

S V S V S P G Q T A R I T C G  
 TCG GTG TCA GTG TCC CCA GGA CAG ACG GCC AGG ATC ACC TGT GGG  
           90                  99                  108                  117                  126

G D N S R N E Y V H W Y Q Q K  
 GGA GAC AAC AGT AGA AAT GAA TAT GTC CAC TGG TAC CAG CAG AAG  
           135                  144                  153                  162                  171

P A R A P I L V I Y D D S D R  
 CCA GCG CGG GCC CCT ATA CTG GTC ATC TAT GAT GAT AGT GAC CGG  
           180                  189                  198                  207                  216

P S G I P E R F S G S K S G N  
 CCC TCA GGGATC CCT GAG CGA TTC TCT GGC TCC AAA TCA GGGAAC  
           225                  234                  243                  252                  261

T A T L T I N G V E A G D E A  
 ACC GCC ACC CTG ACC ATC AAC GGGGTC GAG GCC GGGGAT GAG GCT  
           270                  279                  288                  297                  306

D Y Y C Q V W D R A S D H P V  
 GAC TAT TAC TGT CAG GTG TGG GAC AGG GCT AGT GAT CAT CCG GTC  
           315                  324                  333                  342                  351

F G G G T R V T V L G Q P K A  
 TTC GGA GGA GGG ACC CGG GTG ACC GTC CTA GGT CAG CCC AAG GCT  
           360                  369                  378                  387                  396

A P S V T L F P P S S E E L Q  
 GCC CCC TCG GTC ACT CTG TTC CCG CCC TCC TCT GAG GAG CTT CAA  
           405                  414                  423                  432                  441

A N K A T L V C L I S D F Y P  
 GCC AAC AAG GCC ACA CTG GTG TGT CTC ATA AGT GAC TTC TAC CCG  
           450                  459                  468                  477                  486

FIG. 8A - 1



G A V T V A W K A D S S P V K  
 GGAGCC GTG ACA GTG GCC TGG AAG GCA GAT AGC AGC CCC GTC AAG  
 495 504 513 522 531

A G V E T T T P S K Q S N N K  
 GCGGGA GTG GAG ACC ACC ACA CCC TCC AAA CAA AGC AAC AAC AAG  
 540 549 558 567 576

Y A A S S Y L S L T P E Q W K  
 TAC GCGGCC AGC AGC TAC CTG AGC CTG ACG CCT GAG CAG TGG AAG  
 585 594 603 612 621

S H R S Y S C Q V T H E G S T  
 TCC CAC AGA AGC TAC AGC TGC CAG GTC ACG CAT GAA GGGAGC ACC  
 630 639 648 657 666

V E K T V A P T E C S  
 GTG GAG AAG ACA GTG GCC CCT ACA GAA TGT TCA TGA  
 675 684 693 702

FIG. 8A - 2

LENGTH OF 7C10 HEAVY/PRIMATIZED: 1431 bp; LISTED FROM: 1 TO: 1431  
 TRANSLATED FROM: 1 TO: 1429 (ENTIRE REGION);  
 GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:11 AM

FRAME 1 M K H L W F F L L L V A A  
 ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT  
 9 18 27 36

P R W V L S Q V K L Q Q W G E  
 CCC AGA TGG GTC CTG TCC CAG GTG AAG CTG CAG CAG TGG GGC GAA  
 45 54 63 72 81

G L L Q P S E T L S R T C V V  
 GGACTT CTG CAG CCT TCG GAG ACC CTG TCC CGC ACC TGC GTT GTC  
 90 99 108 117 126

S G G S I S G Y Y Y W T W I R  
 TCT GGT GGCTCC ATC AGC GGT TAC TAC TAC TGG ACC TGG ATC CGC  
 135 144 153 162 171

Q T P G R G L E W I G H I Y G  
 CAG ACC CCA GGGAGG GGA CTG GAG TGG ATT GGCCAT ATT TAT GGT  
 180 189 198 207 216

N G A T T N Y N P S L K S R V  
 AAT GGT GCG ACC ACC AAC TAC AAT CCC TCC CTC AAG AGT CGA GTC  
 225 234 243 252 261

T I S K D T S K N Q F F L N L  
 ACC ATT TCA AAA GAC ACG TCC AAG AAC CAG TTC TTC CTG AAC TTG  
 270 279 288 297 306

N S V T D A D T A V Y Y C A R  
 AAT TCT GTG ACC GAC GCG GAC ACG GCC GTC TAT TAC TGT GCGAGA  
 315 324 333 342 351

G P R P D C T T I C Y G G W V  
 GGCCTT CGC CCT GAT TGC ACA ACC ATT TGT TAT GGC GGCTGG GTC  
 360 369 378 387 396

D V W G P G D L V T V S S A S  
 GAT GTC TGG GGCCCG GGA GAC CTG GTC ACC GTC TCC TCA GCT AGC  
 405 414 423 432 441

T K G P S V F P L A P S S K S  
 ACC AAG GGCCCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC  
 450 459 468 477 486

FIG. 8B - 1

T S G G T A A L G C L V K D Y  
 ACC TCT GGGGGCACA GCGGCC CTG GGC TGC CTG GTC AAG GAC TAC  
 495 504 513 522 531

F P E P V T V S W N S G A L T  
 TTC CCC GAA CCG GTG ACG GTG TCG TGG AAC TCA GGC GCC CTG ACC  
 540 549 558 567 576

S G V H T F P A V L Q S S G L  
 AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCA GGACTC  
 585 594 603 612 621

Y S L S S V V T V P S S S L G  
 TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC  
 630 639 648 657 666

T Q T Y I C N V N H K P S N T  
 ACC CAG ACC TAC ATC TGC AAC GTG AAT CAC AAG CCC AGC AAC ACC  
 675 684 693 702 711

K V D K K A E P K S C D K T H  
 AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC AAA ACT CAC  
 720 729 738 747 756

T C P P C P A P E L L G G P S  
 ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGGGGA CCG TCA  
 765 774 783 792 801

V F L F P P K P K D T L M I S  
 GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC  
 810 819 828 837 846

R T P E V T C V V V D V S H E  
 CGG ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC CAC GAA  
 855 864 873 882 891

D P E V K F N W Y V D G V E V  
 GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG  
 900 909 918 927 936

H N A K T K P R E E Q Y N S T  
 CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG  
 945 954 963 972 981

Y R V V S V L T V L H Q D W L  
 TAC CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC CAG GAC TGG CTG  
 990 999 1008 1017 1026

FIG. 8B - 2

N G K E Y K C K V S N K A L P  
 AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC CTC CCA  
 1035 1044 1053 1062 1071

A P I E K T I S K A K G Q P R  
 GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA  
 1080 1089 1098 1107 1116

E P Q V Y T L P P S R D E L T  
 GAA CCA CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC  
 1125 1134 1143 1152 1161

K N Q V S L T C L V K G F Y P  
 AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGCTTC TAT CCC  
 1170 1179 1188 1197 1206

S D I A V E W E S N G Q P E N  
 AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG AAC  
 1215 1224 1233 1242 1251

N Y K T T P P V L D S D G S F  
 AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC GGC TCC TTC  
 1260 1269 1278 1287 1296

F L Y S K L T V D K S R W Q Q  
 TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG CAG  
 1305 1314 1323 1332 1341

G N V F S C S V M H E A L H N  
 GGGAAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC  
 1350 1359 1368 1377 1386

H Y T Q K S L S L S P G K  
 CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGA  
 1395 1404 1413 1422 1431

FIG. 8B - 3

LENGTH OF 7B6 LIGHT/PRIMATIZED: 720 bp; LISTED FROM: 1 TO: 720;  
 TRANSLATED FROM: 1 TO: 718 (ENTIRE REGION);  
 GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:10 AM

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FRAME 1 M   S   L   P   A   Q   L   L   G   L   L   L   L
          ATG AGC CTC CCT GCT CAG CTC CTC GGGCTG CTA TTG CTC
                   9             18             27             36

C   V   P   G   S   S   G   E   V   V   M   T   Q   S   P
TGC GTC CCC GGGTCC AGT GGGGAA GTT GTGATG ACT CAGTCT CCA
    45             54             63             72             81

L   S   L   P   I   T   P   G   E   P   A   S   I   S   C
CTG TCC CTT CCC ATC ACA CCT GGA GAG CCG GCC TCC ATC TCC TGT
    90             99             108            117            126

R   S   S   Q   S   L   K   H   S   N   G   D   T   F   L
AGG TCT AGT CAA AGC CTT AAA CAC AGT AAT GGAGAC ACC TTC CTG
    135            144            153            162            171

S   W   Y   Q   Q   K   P   G   Q   P   P   R   L   L   I
AGT TGG TAT CAG CAG AAG CCA GGC CAA CCT CCA AGG CTC CTG ATT
    180            189            198            207            216

Y   K   V   S   N   R   D   S   G   V   P   D   R   F   S
TAT AAG GTT TCT AAC CGG GAC TCT GGGGTC CCA GAC AGA TTC AGC
    225            234            243            252            261

G   S   G   A   G   T   D   F   T   L   K   I   S   A   V
GGCAGT GGGGCA GGGACA GAT TTC ACA CTG AAA ATC AGC GCA GTG
    270            279            288            297            306

E   A   E   D   V   G   V   Y   F   C   G   Q   G   T   R
GAGGCT GAA GAT GTT GGGGTT TAT TTC TGC GGGCAA GGT ACA AGG
    315            324            333            342            351

T   P   P   T   F   G   G   G   T   K   V   E   I   K   R
ACT CCT CCC ACT TTC GGC GGA GGGACC AAG GTG GAA ATC AAA CGT
    360            369            378            387            396

T   V   A   A   P   S   V   F   I   F   P   P   S   D   E
ACG GTG GCT GCA CCA TCT GTC TTC ATC TTC CCG CCA TCT GAT GAG
    405            414            423            432            441

Q   L   K   S   G   T   A   S   V   V   C   L   L   N   N
CAG TTG AAA TCT GGA ACT GCC TCT GTT GTG TGC CTG CTG AAT AAC
    450            459            468            477            486
  
```

FIG. 9A - 1

F Y P R E A K V Q W K V D N A  
 TTC TAT CCC AGA GAG GCC AAA GTA CAG TGG AAG GTG GAT AAC GCC  
 495 504 513 522 531

L Q S G N S Q E S V T E Q D S  
 CTC CAA TCG GGT AAC TCC CAG GAG AGT GTC ACA GAG CAG GAC AGC  
 540 549 558 567 576

K D S T Y S L S S T L T L S K  
 AAG GAC AGC ACC TAC AGC CTC AGC AGC ACC CTG ACG CTG AGC AAA  
 585 594 603 612 621

A D Y E K H K V Y A C E V T H  
 GCA GAC TAC GAG AAA CAC AAA GTC TAC GCC TGC GAA GTC ACC CAT  
 630 639 648 657 666

Q G L S S P V T K S F N R G E  
 CAG GGC CTG AGC TCG CCC GTC ACA AAG AGC TTC AAC AGG GGA GAG  
 675 684 693 702 711

C  
 TGT TGA  
 720

FIG. 9A - 2

LENGTH OF 7B6 HEAVY/PRIMATIZED: 1437 bp; LISTED FROM: 1 TO: 1437  
 TRANSLATED FROM: 1 TO: 1435 (ENTIRE REGION);  
 GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:09 AM

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FRAME 1 M   G   W   S   L   I   L   L   F   L   V   A   V
           ATG GGT TGG AGC CTC ATC TTG CTC TTC CTT GTC GCT GTT
                9             18             27             36

A   T   R   V   Q   C   E   V   Q   L   V   E   S   G   G
GCT ACG CGT GTC CAG TGT GAG GTG CAA CTG GTG GAG TCT GGGGGG
    45             54             63             72             81

G   L   V   Q   P   G   G   S   L   R   V   S   C   A   V
GGC TTG GTC CAG CCT GGC GGGTCC CTG AGA GTC TCC TGT GCA GTC
    90             99             108            117            126

S   G   F   T   F   S   D   H   Y   M   Y   W   F   R   Q
TCT GGA TTC ACC TTC AGT GAC CAC TAC ATG TAT TGG TTC CGC CAG
    135            144            153            162            171

A   P   G   K   G   P   E   W   V   G   F   I   R   N   K
GCT CCA GGGAAG GGGCCG GAA TGG GTA GGT TTC ATT AGA AAC AAA
    180            189            198            207            216

P   N   G   G   T   T   E   Y   A   A   S   V   K   D   R
CCGAAC GGT GGGACA ACA GAA TAC GCC GCGTCT GTG AAA GAC AGA
    225            234            243            252            261

F   T   I   S   R   D   D   S   K   S   I   A   Y   L   Q
TTC ACC ATC TCC AGA GAT GAT TCC AAA AGC ATC GCC TAT CTG CAA
    270            279            288            297            306

M   S   S   L   K   I   E   D   T   A   V   Y   Y   C   T
ATG AGC AGC CTG AAA ATC GAG GAC ACG GCC GTC TAT TAC TGT ACT
    315            324            333            342            351

T   S   Y   I   S   H   C   R   G   G   V   C   Y   G   G
ACA TCC TAC ATT TCA CAT TGT CGG GGT GGT GTC TGC TAT GGA GGT
    360            369            378            387            396

Y   F   E   F   W   G   Q   G   A   L   V   T   V   S   S
TAC TTC GAA TTC TGG GGCCAG GGCGCC CTG GTC ACC GTC TCC TCA
    405            414            423            432            441

A   S   T   K   G   P   S   V   F   P   L   A   P   S   S
GCT AGC ACC AAG GGCCCA TCG GTC TTC CCC CTG GCA CCC TCC TCC
    450            459            468            477            486
  
```

FIG. 9B - 1

K S T S G G T A A L G C L V K  
AAG AGC ACC TCT GGGGGCACA GCGGCC CTG GGCTGC CTG GTC AAG  
495 504 513 522 531

D Y F P E P V T V S W N S G A  
GAC TAC TTC CCC GAA CCG GTG ACG GTG TCG TGG AAC TCA GGC GCC  
540 549 558 567 576

L T S G V H T F P A V L Q S S  
CTG ACC AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCA  
585 594 603 612 621

G L Y S L S S V V T V P S S S  
GGA CTC TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC  
630 639 648 657 666

L G T Q T Y I C N V N H K P S  
TTG GGCACC CAG ACC TAC ATC TGC AAC GTG AAT CAC AAG CCC AGC  
675 684 693 702 711

N T K V D K K A E P K S C D K  
AAC ACC AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC AAA  
720 729 738 747 756

T H T C P P C P A P E L L G G  
ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGGGGA  
765 774 783 792 801

P S V F L F P P K P K D T L M  
CCG TCA GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG  
810 819 828 837 846

I S R T P E V T C V V V D V S  
ATC TCC CGGACC CCT GAG GTC ACA TGC GTG GTG GAC GTG AGC  
855 864 873 882 891

H E D P E V K F N W Y V D G V  
CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG  
900 909 918 927 936

E V H N A K T K P R E E Q Y N  
GAG GTG CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC  
945 954 963 972 981

S T Y R V V S V L T V L H Q D  
AGC ACG TAC CGT GTG GTC AGC GTC ACC CTC CAC CAG GAC  
990 999 1008 1017 1026

FIG. 9B - 2



W L N G K E Y K C K V S N K A  
TGG CTG AAT GGCAAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC  
1035 1044 1053 1062 1071

L P A P I E K T I S K A K G Q  
CTC CCA GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG  
1080 1089 1098 1107 1116

P R E P Q V Y T L P P S R D E  
CCC CGA GAA CCA CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG  
1125 1134 1143 1152 1161

L T K N Q V S L T C L V K G F  
CTG ACC AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGCTTC  
1170 1179 1188 1197 1206

Y P S D I A V E W E S N G Q P  
TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG  
1215 1224 1233 1242 1251

E N N Y K T T P P V L D S D G  
GAGAAC AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC GGC  
1260 1269 1278 1287 1296

S F F L Y S K L T V D K S R W  
TCC TTC TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG  
1305 1314 1323 1332 1341

Q Q G N V F S C S V M H E A L  
CAG CAG GGGAAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG  
1350 1359 1368 1377 1386

H N H Y T Q K S L S L S P G K  
CAC AAC CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA  
1395 1404 1413 1422 1431

TGA

FIG. 9B - 3

LENGTH OF 16C10 LAMBDA/PRIMATIZED: 711 bp; LISTED FROM: 1 TO: 711;  
 TRANSLATED FROM: 1 TO: 709 (ENTIRE REGION);  
 GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:08 AM

```

FRAME 1 M R V P A Q L L G L L L L
          ATG AGG GTC CCC GCT CAG CTC CTG GGGCTC CTG CTC CTC
              9          18          27          36

W L P G A R C E S V L T Q P P
TGG CTC CCA GGT GCA CGA TGT GAG TCT GTC CTG ACA CAG CCG CCC
    45          54          63          72          81

S V S G A P G Q K V T I S C T
TCA GTG TCT GGGGCC CCA GGGCAG AAG GTC ACC ATC TCG TGC ACT
    90          99          108          117          126

G S G T S N I G G Y D L H W Y Q
GGGAGC ACC TCC AAC ATT GGA GGT TAT GAT CTA CAT TGG TAC CAG
    135          144          153          162          171

Q L P G T A P K L L I Y D I N
CAG CTC CCA GGAACG GCC CCC AAA CTC CTC ATC TAT GAC ATT AAC
    180          189          198          207          216

K R P S G I S D R F S G S K S
AAG CGA CCC TCA GGAATT TCT GAC CGA TTC TCT GGC TCC AAG TCT
    225          234          243          252          261

G T A A S L A I T G L Q T E D
GGT ACC GCGGCC TCC CTG GCC ATC ACT GGGCTC CAG ACT GAG GAT
    270          279          288          297          306

E A D Y Y C Q S Y D S S L N A
GAG GCT GAT TAT TAC TGC CAG TCC TAT GAC AGC AGC CTG AAT GCT
    315          324          333          342          351

Q V F G G G T R L T V L G Q P
CAG GTA TTC GGA GGA GGGACC CGGCTG ACC GTC CTA GGT CAG CCC
    360          369          378          387          396

K A A P S V T L F P P S S E E
AAG GCT GCC CCC TCG GTC ACT CTG TTC CCG CCC TCC TCT GAG GAG
    405          414          423          432          441

L Q A N K A T L V C L I S D F
CTT CAA GCC AAC AAG GCC ACA CTG GTG TGT CTC ATA AGT GAC TTC
    450          459          468          477          486
  
```

FIG. 10A - 1

Y P G A V T V A W K A D S S P  
TAC CCG GGAGCC GTG ACA GTG GCC TGG AAG GCA GAT AGC AGC CCC  
495 504 513 522 531

V K A G V E T T T P S K Q S N  
GTC AAG GCG GGAGTG GAG ACC ACC ACA CCC TCC AAA CAA AGC AAC  
540 549 558 567 576

N K Y A A S S Y L S L T P E Q  
AAC AAG TAC GCG GCC AGC AGC TAC CTG AGC CTG ACG CCT GAG CAG  
585 594 603 612 621

W K S H R S Y S C Q V T H E G  
TGG AAG TCC CAC AGA AGC TAC AGC TGC CAG GTC ACG CAT GAA GGG  
630 639 648 657 666

S T V E K T V A P T E C S  
AGC ACC GTG GAGAAG ACA GTG GCC CCT ACA GAA TGT TCA TGA  
675 684 693 702 711

FIG. 10A - 2

LENGTH OF 16C10 HEAVY/PRIMATIZED: 1431 bp; LISTED FROM: 1 TO: 1431;  
 TRANSLATED FROM: 1 TO: 1429 (ENTIRE REGION);  
 GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:08 AM

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FRAME 1 M K H L W F F L L L V A A
        ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT
           9         18         27         36

P R W V L S Q V Q L Q E S G P
CCC AGA TGG GTC CTG TCC CAG GTG CAG CTG CAG GAG TCG GGCCCA
   45         54         63         72         81

G L V K P S E T L S L T C A V
GGA CTG GTG AAG CCT TCG GAG ACC CTG TCC CTC ACC TGC GCT GTC
   90         99         108        117        126

S G G S I S G G Y G W G W I R
TCT GGT GGCTCC ATC AGC GGT GGT TAT GGCTGG GGCTGG ATC CGC
   135        144        153        162        171

Q P P G K G L E W I G S F Y S
CAG CCC CCA GGGAAG GGGCTG GAG TGG ATT GGGAGT TTC TAT AGT
   180        189        198        207        216

S S G N T Y Y N P S L K S Q V
AGT AGT GGGAAC ACC TAC TAC AAC CCC TCC CTC AAG AGT CAA GTC
   225        234        243        252        261

T I S T D T S K N Q F S L K L
ACC ATT TCA ACA GAC ACG TCC AAG AAC CAG TTC TCC CTG AAG CTG
   270        279        288        297        306

N S M T A A D T A V Y Y C V R
AAC TCT ATG ACC GCC GCG GAC ACG GCC GTG TAT TAC TGT GTG AGA
   315        324        333        342        351

D R L F S V V G M V Y N N W F
GAT CGT CTT TTT TCA GTT GTT GGAATG GTT TAC AAC AAC TGG TTC
   360        369        378        387        396

D V W G P G V L V T V S S A S
GAT GTC TGG GGCCCG GGA GTC CTG GTC ACC GTC TCC TCA GCT AGC
   405        414        423        432        441

T K G P S V F P L A P S S K S
ACC AAG GGCCCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC
   450        459        468        477        486
  
```

FIG. 10B - 1

T S G G T A A L G C L V K D Y  
ACC TCT GGGGGCACA GCGGCC CTG GGC TGC CTG GTC AAG GAC TAC  
495 504 513 522 531

F P E P V T V S W N S G A L T  
TTC CCC GAA CCG GTG ACG GTG TCG TGG AAC TCA GGC GCC CTG ACC  
540 549 558 567 576

S G V H T F P A V L Q S S G L  
AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA GAC TCC TCA GGA CTC  
585 594 603 612 621

Y S L S S V V T V P S S S L G  
TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC  
630 639 648 657 666

T Q T Y I C N V N H K P S N T  
ACC CAG ACC TAC ATC TGC AAC GTG AAT CAC ACA TGC CCA AAC ACC  
675 684 693 702 711

K V D K K A E P K S C D K T H  
AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC AAA ACT CAC  
720 729 738 747 756

T C P P C P A P E L L G G P S  
ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGGGGA CCG TCA  
765 774 783 792 801

V F L F P P K P K D T L M I S  
GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC  
810 819 828 837 846

R T P E V T C V V V D V S H E  
CGG ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC CAC GAA  
855 864 873 882 891

D P E V K F N W Y V D G V E V  
GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG  
900 909 918 927 936

H N A K T K P R E E Q Y N S T  
CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG  
945 954 963 972 981

Y R V V S V L T V L H Q D W L  
TAC CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC CAG GAC TGG CTG  
990 999 1008 1017 1026

FIG. 10B - 2

N G K E Y K C K V S N K A L P  
AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC CTC CCA  
1035 1044 1053 1062 1071

A P I E K T I S K A K G Q P R  
GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA CCC CGA  
1080 1089 1098 1107 1116

E P Q V Y T L P P S R D E L T  
GAA CCA CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC  
1125 1134 1143 1152 1161

K N Q V S L T C L V K G F Y P  
AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGCTTC TAT CCC  
1170 1179 1188 1197 1206

S D I A V E W E S N G Q P E N  
AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG AAC  
1215 1224 1233 1242 1251

N Y K T T P P V L D S D G S F  
AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC TCC TCC TTC  
1260 1269 1278 1287 1296

F L Y S K L T V D K S R W Q Q  
TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG CAG  
1305 1314 1323 1332 1341

G N V F S C S V M H E A L H N  
GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC  
1350 1359 1368 1377 1386

H Y T Q K S L S L S P G K  
CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGA  
1395 1404 1413 1422 1431

FIG. 10B - 3